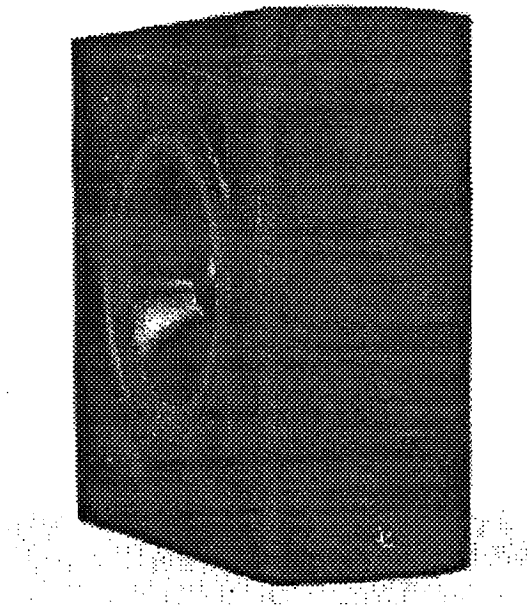
PRELIMINARY SERVICE MANUAL

COMPOSITION

OVERTURE 1

Powered 3-way Loudspeaker



Infinity Systems, Inc.
250 Crossways Park Dr.
Woodbury, New York 11797

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SPECIFICATIONS – OVTR 1

PERFORMANCE DATA

Frequency Range:	35 ~ 20,000 Hz
Sensitivity:	92 dB spl @ 1 m/2.83 V (anechoic conditions)
Impedance:	8 Ω nominal
Maximum Peak Output:	108 dB (spl on program)
Amplifier Requirements:	Recommended for use with amplifiers 10 ~ 100 W (@ 8 Ω)

DRIVE UNITS

Low Frequency:	One 8" (200 mm) high-efficiency, ultra-linear, long-throw, magnetically-shielded woofer
Mid Frequency:	Two 4" (100 mm) high-efficiency, magnetically-shielded, mid-range drivers
High Frequency:	One 1" (25 mm) soft dome, high-efficiency, neodymium magnet, magnetically-shielded tweeter
Crossover Frequencies:	300 and 3,000 Hz

AMPLIFIER

(BUILT-IN POWER AMPLIFIER FOR LOW-FREQUENCY SECTION)

Peak Output:	250 VA
Power Supply:	120 V~ 60 Hz
Power Consumption:	150 W (maximum), 7 W (standby)

DIMENSIONS

(also see inside front cover)

Width:	5 ¾" (146 mm)
Height:	12 ½" (318 mm)
Depth:	12 ½" (318 mm)
Weight:	28.5 lb or 12.95 kg (each)

Operating The System

Each Compositions Overture OVTR 1 speaker system contains a built-in powered subwoofer. For your convenience, the system is not fitted with a power on/off switch. Instead, an auto-sense circuit will instantly switch the system on when an audio signal is present, and will automatically revert to standby (drawing only 7 watts) when audio is absent for a minimum of 10 minutes. A dual-color "Power On" LED (see Figure 8 below) glows red when the amplifier is the stand-by mode and green when the amplifier is on.

If on/off switching is desired, connect the OVTR 1's ac power cord to an ac switched outlet. If you plan to leave for an extended period of time (e.g., vacation), switch the system off (or unplug the ac power cord).

IMPORTANT!

This product is designed for (USA) 120 Vac use only. Do not connect it to any other line voltages.

Power On...

1. After speaker wiring has been completed, connect each speaker's ac power cord to the nearest ac receptacle. You should see an LED illuminate, indicating the amplifier is on (see Figure 8 below). If not, verify the ac outlet is delivering power or refer to *Troubleshooting*

Checking Playback...

2. Check the speakers for playback by first setting the audio system volume control for a minimum level, and then applying power to your system. Play a favorite music or video segment and increase the volume control to a comfortable level.

   NOTE: You should hear balanced audio reproduction across the entire frequency spectrum. If not, check all wiring connections and refer to the "Troubleshooting" section

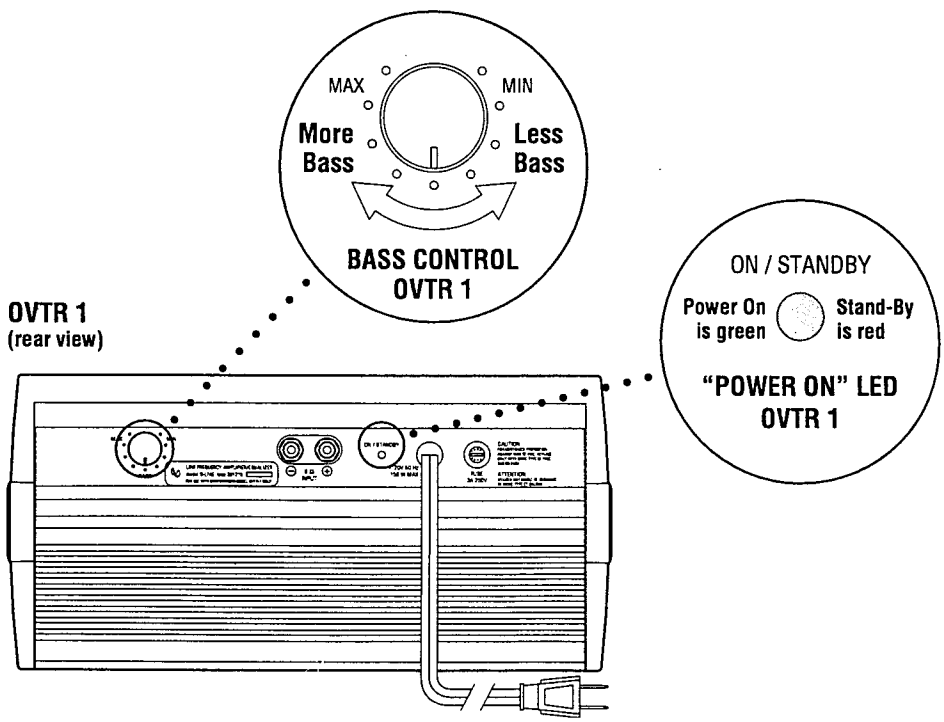

Figure 8. Located on each OVTR 1's rear panel are a BASS level control and a dual-color "Power On" LED.

OPERATING THE SYSTEM (CONT'D)

3. Listen to a variety of music selections and note the bass level. If you feel there is too much bass, you can reduce it by adjusting the BASS control from the "normal" center-detent position towards the MIN setting (see Figure 8 on previous page). Conversely, if you want more bass output, rotate the level control towards the MAX setting.

JUDGING BASS LEVEL...

NOTE: The amount of bass you hear will be affected by a number of different factors, including the room's size and shape, the construction materials used to build the room, the listener's position relative to the speakers, and the position of the speakers in the room. If there is too much bass, move the speakers away from nearby walls. Conversely, if you want more bass, place the speakers closer to the walls

REPLACING THE FUSE

Compositions Overture OVTR 1 speakers each use a built-in fuse to protect the subwoofer amplifier. To replace a fuse with a new one (see enclosed spare), perform the following procedure:

1. Unplug the speaker's ac power cord. Then turn the speaker around to access the fuse holder on the rear panel (refer to Figure 9 below).
2. Using a small flat-blade screwdriver, place the tip in the indent and turn the fuse cap counter-clockwise.
3. Remove the old fuse and replace it with a new one having the same value and rating, a 2AG 3A SB 250V fuse. #331630-001

IMPORTANT!

Do not substitute the blown fuse with another fuse value or rating. Doing so will void the warranty.

4. Insert the cap holding the new fuse into the holder and turn clockwise to lock it.
5. Rotate the speaker to its original position. Then plug the speaker's ac power cord back into the nearest ac outlet.

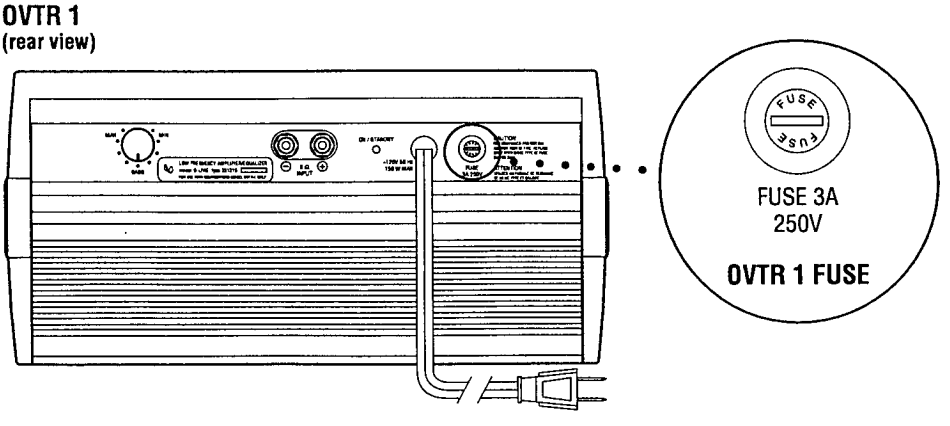

Figure 9. The OVTR 1's fuse is located on the rear panel next to the ac power cord.

Care Of Your Speaker System

The dark grey metallic finish does not require any routine maintenance. When needed, use a soft cloth, dampened with water only, to remove any fingerprints or to wipe off dust. Clean the grille by gentle vacuuming or with a damp cloth.

NOTE: Do not use any cleaning products or polishes on the cabinet or grille.

For maximum acoustic transparency, the grille uses a lightweight structure that needs to be handled with care for removal. To remove the grille, gently pull on the corners to unfasten the frame from the cabinet. To replace it, make sure to align the frame pins first and then gently snap the frame into place. Never force the grille frame onto the cabinet.

Troubleshooting*

Symptom	Cause	Solution
Bass is too loud	Bass reinforcement in room	Move speakers away from walls
	Bass level is too high	Rotate BASS control towards "1" (
Bass sounds distorted	Subwoofer amplifier has reached maximum output	Turn down volume control on receiver or preamplifier
	Bass level on preamp/ receiver is set too high	Set bass and treble flat; use controls sparingly
Distortion with volume control near minimum	Defective receiver or preamplifier; shorted speaker wires	Repair defective receiver or preamplifier
Distortion on music or effects peaks (e.g., pops or noise)	Dynamic soundtrack causes subwoofer to "bottom" out	Turn down master volume control to lower overall range
	Tone controls are set too high	Set bass and treble flat; use controls sparingly
Buzz, hum, or crackle when connecting wires	Connecting wires with power on causes transient signal spikes	Connect wires only when audio system power is off
No sound from speaker system; power LED not on	Power cord not connected; no ac power	Connect ac power cord; check ac outlet
	Blown fuse	Check or replace fuse

**If you need further assistance, contact your local Infinity retail dealer.*

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Infinity®

Service Bulletin

Service bulletin INF9704 - Nov. 1997

To: All Infinity Service Centers

Models: Overture 1; Overture 2; Overture 3

Subject: Premature muting

At the moment the bass information at the audio input terminals exceeds 30 mV, the amplifier in the Overture series switches from the STANDBY mode to the ON mode. Approximately 10 minutes after the bass information drops below the sensing threshold, the subwoofer amplifier returns to STANDBY.

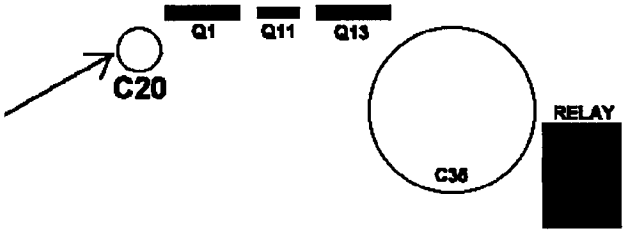
Some customers may experience a tendency for the Overture 1, 2 or 3 to "mute" or shut down when played at a low level and negligible bass information is present. Actually, this is normal behavior for the loudspeaker. *If* the unit was designed to be extremely sensitive, the bass amplifier could sense small amounts of 60 Hz hum or noise picked up by the customer's input cables, random RF noise, etc. and *the unit would never turn off.*

In the event you receive a Overture 1, 2 or 3 with the complaint "unit is shutting off (muting) when low levels of music are being played", this complaint can be resolved by the replacing C20 (220uf/25v) on the PCB with a 2200uf/25v capacitor.
This change will lengthen the delay time for muting to 50-60 minutes.

Procedure, Overture 1:

1) With a sharp instrument, carefully pry out and remove the metal grille covering the woofer, taking note of the (4) rubber corners on the grille.
2) Pull back the circular rubber flap and remove the (6) woofer mounting screws and their clamps.
3) Remove the woofer from the cabinet by pulling on the rubber flap, then unplug the yellow connecting wires.
4) Remove the dacron section from the cabinet.
5) Outside the cabinet, remove the (2) Phillips screws on the cabinet end, amplifier side.
6) Inside the cabinet, remove the (2) amplifier mounting nuts. These may be covered with a sealant and will have to be cleaned off before removal.
7) Unplug the (2) white wires w/spade terminals connected to the crossover assembly.
8) Remove the amplifier assembly from the cabinet.
9) Unplug the AC input wires; remove the transistor clamp and the two mounting nuts from the PCB.
10) Locate C20 (See Figure 1). Remove and replace with 2200uf/25v capacitor (Infinity part # 201-8120).
11) Replace the PCB in the heatsink, taking care to replace the insulating fishpaper under the PCB and the output transistors.
12) Re-assemble and replace the amp assembly into the cabinet in reverse order, taking special precautions:
    a) There are <u>two</u> gaskets under the woofer basket, assure they are both in place upon re-assembly.
    b) The (6) clamps under the woofer mounting screws are not symmetrical; make sure the shorter side of the clamps are pointing towards the center of the woofer cone.
    c) Tighten the (6) final woofer mounting screws sequentially; <u>do not over tighten.</u>
    d) Before replacing the metal grille, place the rubber corner(s) on each corner of the grille.

FIGURE 1



Infinity®

Service Bulletin

Service bulletin INF9705 - Nov. 1997

To: All Infinity Service Centers

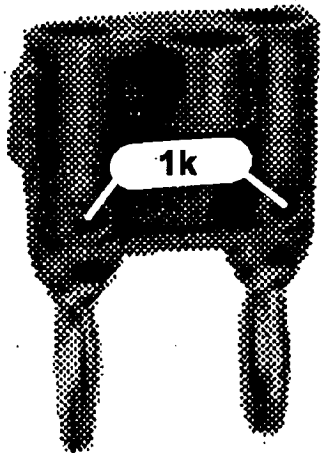
Models: Overture 1; Overture 2; Overture 3

Subject: Unit cycles on & off with no music signal

Operation principle of Auto ON/OFF circuit: in Overture 1, Overture 2, Overture 3:
The Mid and High frequency transducers of Overture 1 or 2 or 3 are powered by the receiver or power amplifier connected to the input terminals of Overture 1 or 2 or 3. The Subwoofer transducer in Overture 1 and 2 and 3 is powered by a subwoofer amplifier inside the Overture speaker enclosure. At the moment audio signals at the Overture input terminals exceeds a level of 30 mV, the Overture Auto detect circuit will switch the subwoofer amplifier from the STANDBY to the ON mode. Approximately 10 minutes after the audio information drops below the sensing threshold, the Auto detect circuit will switch the subwoofer amplifier from the ON mode to the STANDBY mode.

AUTO ON due to noise:
Most amplifiers or receivers, while in the Power OFF mode, have an output impedance at their speaker terminals in the order of several kilo Ohms. However, certain types or receivers and power amplifiers disconnect the power amplifier section from the speaker terminals by means of a relay. As result, the speaker cables connected to the Overture input terminals may pick up RF or 50/60 Hz noise. This noise can activate the Auto detect circuit in Overture and switch the subwoofer amplifier to the ON mode. Approximately 10 minutes after the noise disappears, the Auto detect circuit will switch the subwoofer amplifier back to the STANDBY mode. As result, the customer may hear continual ON-OFF cycling of the subwoofer amplifier.

In the event you receive a Overture 1, 2 or 3 with the complaint "unit is turning on & off (audible relay clicking) even though the receiver is turned off", insert a banana plug w/ 1000Ω terminating resistor (Infinity part# 518-0425) into the Overture banana speaker jacks.



Infinity Systems, Inc. 250 Crossways Park Drive, Woodbury, New York 11797 (516) 496-3400

PRIMARY PARTS LIST

OVERTURE 1

PART NUMBER	DESCRIPTION
COSMETIC PARTS	
331197-001	CABINET-BLACK ASH
331185-001	GRILLE ASSY W/LOGO
330956-001	GRILLE ASSY (SIDE)
332518-001	ASSY BASE (CRADLE)
Accessory kit:	
332068-001	FOOT
332336-001	ADHESIVE
332067-001	RUBBER PLUG
332182-001	FOOT - 1/8 X 1/2
332183-001	FOOT - 1/4 X 1/2
331630-001	3 AMP FUSE
CROSSOVER PARTS	
331211-001	CROSSOVER ASSY COMP 1
331215-001	AMP ASSY OVTR 1
331630-001	3AMP SB FUSE
331723-001	POST - RED
331724-001	POST - BLACK
146-8021	Knob for POT
146-6461	POT
DRIVERS/TRANDUCERS	
332181-001 -- USE 333232-001	TWEETER (25MM)
330638-001	M/I MIDRANGE 4" (M100-3)
331284-001 -- USE 331663-001	M/I LM WOOFER 8" (B200-1)

Procedure: PDC-R-08 - Account: ELP54
Effectivity Date : 03-24-98

AM0000091

.Level.	X	..Part Number..	PC	.....Description.....	Rev	Quantity.	U/M.	MB	.ECO....	ECO Date Strt	Use End Use
0	X	AM0000091		Snowball Amplifier 97-1	01	1.0000	EA	M			
1		BR1412	MF	Clamp Transistor Snowball	00	1.0000	EA	B			
1		BR1416	MF	Plate Amp SnowBall 97-1	00	1.0000	EA	B			
1		BR1419	MF	BAR AMP ASSY. SNOWBALL 97	00	1.0000	EA	B			
1		FH1004	JR	Fuseholder 2AG Chassis Mo	00	1.0000	EA	B			
1		FS1064	JR	Fuse Slo-Blo 3A/250V 2AG	00	1.0000	EA	B			
1		HS1144	MF	Heatsink Snowball 97-1	00	1.0000	EA	B			
1		LB1265	JG	Bar Code Traceability Lab	01	1.0000	PC	B			02-20-97
1		LB1287	JG	Label Amp. SnowBall 97-1	00	1.0000	EA	B			
1		NU1049	JG	Nut 8-32 x 1/4 Hex Keps S	00	8.0000	EA	B			
1		PM1331	JG	Plastic Bag Pink Antistat	01	1.0000	EA	B			02-20-97
1		PM1385	AG	Styrofoam Snowball 97-1	00	0.3333	EA	B			
1	P	SA0309111		Level Ctrl. Assy. Snowbal	02	1.0000	EA	M			
2		IM1138	JG	Sleeving Shrink PVC 3/32	01	0.1250	FT	B			
2		RS2153	JR	Potentiometer 20Kohm 20%	00	1.0000	EA	B			
2		IM1139	JG	Sleeving Shrink PVC 3/16	00	0.2084	FT	B	10070	04-16-97	05-01-97
2		WI1698	AG	WIRE # 22 PREFUSED BLACK	00	0.2500	FT	B	10143	06-05-97	06-05-97
2		WI1699	AG	WIRE # 22 PREFUSED GREEN	00	0.2500	FT	B	10143	06-05-97	06-05-97
2		WI1651	AG	Wire # 22 Prefuse Red	00	0.2500	FT	B	10143	06-05-97	06-05-97
1	P	SA0309121		Led Harness Snowball 1	02	1.0000	EA	M			
2		IM1138	JG	Sleeving Shrink PVC 3/32	01	0.1250	FT	B			
2		LE1034	SM	Led Green/Red Common Cath	00	1.0000	EA	B			
2		IM1139	JG	Sleeving Shrink PVC 3/16	00	0.2084	FT	B	10070	04-16-97	05-01-97
2		WI1698	AG	WIRE # 22 PREFUSED BLACK	00	0.2500	FT	B	10143	06-05-97	06-05-97
2		WI1699	AG	WIRE # 22 PREFUSED GREEN	00	0.2500	FT	B	10143	06-05-97	06-05-97
2		WI1651	AG	Wire # 22 Prefuse Red	00	0.2500	FT	B	10143	06-05-97	06-05-97
1	P	SA0309131		Input Assy. Snowball 1	02	1.0000	EA	M			
2		CO1345	MF	Connector Bindingpost Pai	00	1.0000	EA	B			
2		WI1671	AG	Wire #18 16x30 UL1007 Red	00	0.5000	FT	B			
2		WI1672	AG	Wire #18 16x30 UL1007 Bla	00	0.5000	FT	B			
2		IM1139	JG	Sleeving Shrink PVC 3/16	00	0.2500	FT	B	10070	04-16-97	05-01-97
1	P	SA0309141		Preform Assy. Snowball 1	01	1.0000	EA	M			
2		CP1126	SM	CAP POLY FILM 1uF 10% 50V	00	1.0000	EA	B			
2		CP1630	SM	Cap Alum El 220uF 20% 25v	00	1.0000	EA	B			
2		CP1656	SM	Cap. Al El 100uF 20% NPE	00	1.0000	EA	B			
2		CP1657	SM	Cap. Al El 220uF 20% NPE	00	1.0000	EA	B			
2		CP1658	SM	Cap. Disc 100pF 10% 500V	00	4.0000	EA	B			
2		CP1659	SM	Cap. NPE 10uF 20% 25V T/R	00	1.0000	EA	B			
2		CP1660	SM	CAP AL EL 1000uF 20% 200V	00	2.0000	EA	B			
2		CP1661	SM	Cap. Alum El. 100uF 20% 5	00	1.0000	EA	B			
2		CP1662	SM	Cap. Alum El. 10uF 20% 35	00	5.0000	EA	B			
2		CP1663	SM	Cap. Alum El. 47uF 20% 25	00	1.0000	EA	B			
2		CP1664	SM	Cap. Alum EL. 4.70uF 20%	00	2.0000	EA	B			
2		CP1665	SM	Cap. Alum EL. 10uF 20% 63	00	1.0000	EA	B			
2		CP1666	SM	Cap Cer Disc 68pF 20% 500	00	2.0000	EA	B			
2		CP1667	SM	Cap. Poly Fil. 0.47uF 10%	00	1.0000	EA	B			
2		CP1668	SM	Cap. Alum El. 47uF 20% 10	00	1.0000	EA	B			
2		CP1669	SM	Cap. Poly Fil .10uF 10% 4	00	1.0000	EA	B			
2		CP1670	SM	Cap. Poly Fil .039uF 5% 5	00	1.0000	EA	B			
2		CP1672	SM	Cap Poly 0.22uF 5% 63V T/	00	3.0000	EA	B			
2		CP1673	SA	Cap. Pol Fil 1nF 10% 50V	00	1.0000	EA	B			

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.Level.	X	..Part Number..	PC	.....Description.....	Rev	Quantity.	U/M.	MB	.ECO....	ECO Date	Strt Use	End Use
2		CP1674	SM	Cap. Alum El. 1uF 20% 50V	00	1.0000	EA	B				
2		CP1675	SM	Cap. Pol Fil 0.1uF 5% 50V	00	7.0000	EA	B				
2		DI1186	SM	Diode Zener 36V 5% 5W T/R	00	1.0000	EA	B				
2		DI1187	SM	Di, Bridge Powr 400V/8A	00	1.0000	EA	B				
2		IC1045	JR	Three-Term. Adj. Pos. V R	00	1.0000	EA	B				
2		IC1215	JR	IC TL064CN Quad OP AMP	00	2.0000	EA	B				
2		IC1216	JR	IC TL062CP Dual OP Amp.	00	1.0000	EA	B				
2		IM1153	JG	Sleeving Teflon 3/32"Diam	00	0.0938	FT	B				
2		MI1155	AG	Transformer Coupling SnwB	00	1.0000	EA	B				
2		RE1019	JR	Relay,12A,48VDC	00	1.0000	EA	B				
2		RS2154	JR	Potentiometer 2Kohm	00	1.0000	EA	B				
2		RS2283	JR	RES M/O F/P 5.1Kohm 5% 5W	00	1.0000	EA	B				01-30-97
2		TE1175	MF	Trmnl Male Tab .032"x.250	00	3.0000	EA	B				
2		TE1187	MF	TERM FASTON.187",m,mcp mt	00	3.0000	EA	B				
2		TH1017	JR	Inrush Current Lititer	00	1.0000	EA	B				
2		TR1002	SM	NPN Transistor TO-92	00	3.0000	EA	B				
2		TR1017	SM	Transistor PNP T/R	00	4.0000	EA	B				
2		TR1257	SM	Fet Power	00	2.0000	EA	B				
2		TR1259	SM	NPN Powr 300V/0.5A/20W To	00	3.0000	EA	B				
2		TR1260	SM	PNP Power 300V/0.5A/20W T	00	1.0000	EA	B				
2		VA1009	AG	Varistor 200V	00	1.0000	EA	B				
2		TR1304	SM	NPN XSTR 60V/3A 25W	00	1.0000	EA	B	10696	02-20-98	02-28-98	
1	P	SA0309151		Axial Sequence Snowball 1	00	1.0000	EA	M				
2		DI1004	SM	DIODE ZENER 6.2V 1/2W T/R	00	1.0000	EA	B				
2		DI1060	SM	Diode Switching 500mW 75V	00	9.0000	EA	B				
2		DI1089	SM	Diode 1N4003 1A 200 PIV	00	1.0000	EA	B				
2		DI1101	SM	DIODE ZENER 10V 1/2W T/R	00	2.0000	EA	B				
2		PC1174	MF	PC Board Snowball I	B	1.0000	EA	B				
2		RS1036	JR	RES M/F 36 ohm 5% 1/4W	00	1.0000	EA	B				
2		RS1058	JR	RES M/F 51.1Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1063	JR	RES M/F 1 Mohm 1% 1/4W	00	1.0000	EA	B				
2		RS1150	JR	RES M/F 43.2Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1153	JR	RES M/F 47.5Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1161	JR	RES M/F 11Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1268	JR	RES M/F 2.21Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1342	JR	RES M/F 9.09Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1351	MF	RES M/F 13Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1353	JR	RES M/F 3.01Kohm 1% 1/4W	00	3.0000	EA	B				
2		RS1357	JR	RES M/F 100 ohm 1% 1/4W	00	1.0000	EA	B				
2		RS1370	JR	RES M/F 3.57Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1455	JR	RES M/F 150Kohm 1% 1/4W	00	3.0000	EA	B				
2		RS1492	JR	RES M/F 221Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1505	JR	RES M/F 475Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1562	JR	RES M/F 82.5Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS1585	JR	RES M/F 475 ohm 1% 1/4W	00	1.0000	EA	B				
2		RS2018	JR	RES M/F 10Kohm 1% 1/4W	00	3.0000	EA	B				
2		RS2019	JR	RES M/F 20Kohm 1% 1/4W	00	8.0000	EA	B				
2		RS2025	JR	RES M/F 9.31Kohm 1% 1/4W	00	2.0000	EA	B				
2		RS2100	JR	RES M/F 22.1Kohm 1% 1/4W	00	2.0000	EA	B				
2		RS2124	JR	RES M/F 2.37Kohm 1% 1/4W	00	1.0000	EA	B				
2		RS2125	JR	RES M/F 59Kohm 1% 1/4W	00	2.0000	EA	B				

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.Level.	X	..Part Number..	PC	.....Description.....	Rev	Quantity.	U/M.	MB	.ECO....	ECO Date Strt	Use End
2		RS2127	JR	RES M/F 12.4Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2129	JR	RES M/F 5.49Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2132	JR	RES M/F 21.5Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2134	JR	RES M/F 324Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2139	JR	RES M/F 200 ohm 1% 1/4W	00	1.0000	EA	B			
2		RS2140	JR	RES M/F 619Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2141	JR	RES M/F 110Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2142	JR	RES M/F 100Kohm 1% 1/4W	00	3.0000	EA	B			
2		RS2143	JR	RES M/F 3.32Kohm 1% 1/4W	00	4.0000	EA	B			
2		RS2144	JR	RES M/F 1.3Kohm 1% 1/4W	00	2.0000	EA	B			
2		RS2146	JR	RES M/F 1.5Mohm 1% 1/4W	00	1.0000	EA	B			
2		RS2147	JR	RES M/F 249Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2148	JR	RES M/F 130Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2149	MF	Res. Fuse 1Kohm 5% 1/4W T	00	6.0000	EA	B			
2		RS2150	JR	Res. Fuse 0.22ohm 5% 1/2W	00	2.0000	EA	B			
2		RS2151	JR	RES M/O F/P 1Kohm 5% 2W	00	1.0000	EA	B			
2		RS2152	JR	RES M/F 75Kohm 1% 1/4W	00	1.0000	EA	B			
2		RS2155	JR	RES C/F 33Kohm 5% 1/2W	00	2.0000	EA	B			
2		RS2158	JR	RES M/F 3.3Kohm 5% 1/4W	00	1.0000	EA	B			
2		RS2181	JR	RES M/F 2.21Mohm 1% 1/4W	00	2.0000	EA	B			
1		SC1099	JG	SC 6-32x 1/4 Mach-Thr Pan	00	2.0000	EA	B			
1		SP1083	JG	Insulation Sheet	00	1.0000	EA	B			
1		SP1084	JG	Spcr Fibre ID 0.128" OD 0	00	1.0000	EA	B			
1		SP1086	JG	Clamp Insulator Snowball	00	1.0000	EA	B			
1		TE1198	MF	Trmnl Female 0.187x0.020	00	1.0000	EA	B		01-21-97	
1		TE1199	MF	Trmnl Female 0.0250x.032	00	1.0000	EA	B		01-21-97	
1		TP1120	JG	Kapton Tape	00	1.0000	EA	B			
1		XX1280	AG	Power Cord 12Ft 16AWG	00	1.0000	EA	B			
1		XX1282	AG	Strain Relief Black	00	1.0000	EA	B			
1		XX1290	RB	Knob Level Snowball 97-1	00	1.0000	EA	B			

Single Level Bill of Materials
Procedure: PDC-R-07 - Account: ELP54
Effectivity Date : 03-24-98

SA0309141 - Preform Assy. :

Item..	X	..Part Number.. Description	Rev	.Quantity. Inv	...Alt-Part#... Oper#	....Reference Designator....	.UM.	ECO No.	ECO Date	Strt	Use Yield%
	P	SA0309141 Preform Assy. Snowball 1	01	1.0000			EA				
0		CP1126 CAP POLY FILM 1uF 10% 50V T/R	00	1.0000	20	C19	EA				100.00
0		CP1630 Cap Alum El 220uF 20% 25v T/R	00	1.0000	20	C20	EA				100.00
0		CP1656 Cap. Al El 100uF 20% NPE 25V T/R	00	1.0000	20	C2	EA				100.00
0		CP1657 Cap. Al El 220uF 20% NPE 25V	00	1.0000	20	C3	EA				100.00
0		CP1658 Cap. Disc 100pF 10% 500V Y5P CLASS II	00	4.0000	20	C4,12,14,30	EA				100.00
0		CP1659 Cap. NPE 10uF 20% 25V T/R	00	1.0000	20	C11	EA				100.00
0		CP1660 CAP AL EL 1000uF 20% 200V 85C 3.25A 35x30	00	2.0000	20	C15,35	EA				100.00
0		CP1661 Cap. Alum El. 100uF 20% 50V T/R	00	1.0000	20	C16	EA				100.00
0		CP1662 Cap. Alum El. 10uF 20% 35V T/R	00	5.0000	20	C17,18,22,23,25	EA				100.00
0		CP1663 Cap. Alum El. 47uF 20% 25V	00	1.0000	20	C21	EA				100.00
0		CP1664 Cap. Alum EL. 4.70uF 20% 63V T	00	2.0000	20	C24,29	EA				100.00
0		CP1665 Cap. Alum EL. 10uF 20% 63V T/R	00	1.0000	20	C28	EA				100.00
0		CP1666 Cap Cer Disc 68pF 20% 500V T/R	00	2.0000	20	C31,32	EA				100.00
0		CP1667 Cap. Poly Fil. 0.47uF 10% 250V	00	1.0000	20	C33	EA				100.00
0		CP1668 Cap. Alum El. 47uF 20% 10 0V	00	1.0000	20	C36	EA				100.00
0		CP1669 Cap. Poly Fil .10uF 10% 400V	00	1.0000	20	C40	EA				100.00

SA0309141 - Preform Assy.

Item..	X	..Part Number.. Description	Rev	.Quantity. Inv	...Alt-Part#... Oper#	....Reference Designator....	.UM.	ECO No. Yield%	ECO Date	Strt Use
0		CP1670 Cap. Poly Fil .039uF 5% 50V	00	1.0000	20	C41	EA	100.00		
0		CP1672 Cap Poly 0.22uF 5% 63V T/R	00	3.0000	20	C5,6,13	EA	100.00		
0		CP1673 Cap. Pol Fil 1nF 10% 50V	00	1.0000	20	C26	EA	100.00		
0		CP1674 Cap. Alum El. 1uF 20% 50V	00	1.0000	20	C27	EA	100.00		
0		CP1675 Cap. Pol Fil 0.1uF 5% 50V	00	7.0000	20	C7,9,10,37,38,39,42	EA	100.00		
0		DI1186 Diode Zener 36V 5% 5W T/R	00	1.0000	20	ZD1	EA	100.00		
0		DI1187 Di, Bridge Powr 400V/8A	00	1.0000	20	D18	EA	100.00		
0		IC1045 Three-Term. Adj. Pos. V Reg.	00	1.0000	20	U4	EA	100.00		
0		IC1215 IC TL064CN Quad OP AMP	00	2.0000	20	U1,2	EA	100.00		
0		IC1216 IC TL062CP Dual OP Amp.	00	1.0000	20	U3	EA	100.00		
0		IM1153 Sleeving Teflon 3/32"Diameter	00	0.0938	20	Q11	FT	100.00		
0		MI1155 Transformer Coupling SnWBall	00	1.0000	20	T1	EA	100.00		
0		RE1019 Relay,12A,48VDC	00	1.0000	20	K2	EA	100.00		
0		RS2154 Potentiometer 2Kohm	00	1.0000	20	P2	EA	100.00		
0		RS2283 RES M/O F/P 5.1Kohm 5% 5W T/R	00	1.0000	20	R23	EA	100.00	01-30-97	
0		TE1175 Trmnl Male Tab .032"x.250"PC M	00	3.0000	20	HF+OUT,LF+OUT,AC HI	EA	100.00		
0		TE1187 TERM FASTON.187",m,mcp mt	00	3.0000	20	HF-OUT,LF-OUT,AC NEUT	EA	100.00		

Single Level Bill of Materials
Procedure: PDC-R-07 - Account: ELP54
Effectivity Date : 03-24-98

SA0309141 - Preform Assy.

Item	X	Part Number / Description	Rev	Quantity / Inv	Alt-Part# / Oper#	Reference Designator	UM	ECO No. / Yield%	ECO Date	Strt Use
		G								
0		TH1017 Inrush Current Lititer 5A @10 ohms	00	1.0000 20		CL1	EA	100.00		
0		TR1002 NPN Transistor TO-92	00	3.0000 20		Q1,5,7	EA	100.00		
0		TR1017 Transistor PNP T/R	00	4.0000 20		Q2,3,6,8	EA	100.00		
0		TR1257 Fet Power	00	2.0000 20		Q13,14	EA	100.00		
0		TR1259 NPN Powr 300V/0.5A/20W To -126	00	3.0000 20		Q4,9,12	EA	100.00		
0		TR1260 PNP Power 300V/0.5A/20W T o-126	00	1.0000 20		Q10	EA	100.00		
0		VA1009 Varistor 200V	00	1.0000 20		MOV1	EA	100.00		
0		TR1304 NPN XSTR 60V/3A 25W TO-220 INSULATED BULK	00	1.0000 20		Q11	EA	10696 100.00	02-20-98	02-28-98

SA0309151 - Axial Sequence

Item	X	Part Number / Description	Rev	Quantity / Inv	Alt-Part# / Oper#	Reference Designator	UM	ECO No. / ECO Date	Strt / Use Yield%
	P	SA0309151 Axial Sequence Snowball 1	00	1.0000			EA		
0		DI1004 DIODE ZENER 6.2V 1/2W T/R	00	1.0000 10		ZD2	EA		100.00
0		DI1060 Diode Switching 500mW 75V T/R	00	9.0000 10		D1,2,4,5,6,7,8,9,11	EA		100.00
0		DI1089 Diode 1N4003 1A 200 PIV	00	1.0000 10		D10	EA		100.00
0		DI1101 DIODE ZENER 10V 1/2W T/R	00	2.0000 10		ZD3,5	EA		100.00
0		PC1174 PC Board Snowball I	B	1.0000 10			EA		100.00
0		RS1036 RES M/F 36 ohm 5% 1/4W T/R	00	1.0000 10		R74	EA		100.00
0		RS1058 RES M/F 51.1Kohm 1% 1/4W T/R	00	1.0000 10		R63	EA		100.00
0		RS1063 RES M/F 1 Mohm 1% 1/4W T/R	00	1.0000 10		R39	EA		100.00
0		RS1150 RES M/F 43.2Kohm 1% 1/4W T/R	00	1.0000 10		R56	EA		100.00
0		RS1153 RES M/F 47.5Kohm 1% 1/4W T/R	00	1.0000 10		R29	EA		100.00
0		RS1161 RES M/F 11Kohm 1% 1/4W T/R	00	1.0000 10		R21	EA		100.00
0		RS1268 RES M/F 2.21Kohm 1% 1/4W T/R	00	1.0000 10		R66	EA		100.00
0		RS1342 RES M/F 9.09Kohm 1% 1/4W T/R	00	1.0000 10		R52	EA		100.00
0		RS1351 RES M/F 13Kohm 1% 1/4W T/R	00	1.0000 10		R48	EA		100.00
0		RS1353 RES M/F 3.01Kohm 1% 1/4W T/R	00	3.0000 10		R50,51,57	EA		100.00
0		RS1357 RES M/F 100 ohm 1% 1/4W T/R	00	1.0000 10		R54	EA		100.00

SA0309151 - Axial Sequence

Item..	X	..Part Number..	Rev	.Quantity.	...Alt-Part#...	....Reference Designator....	.UM.	ECO No.	ECO Date	Strt Use End
		Description		Inv	Oper#					Yield%
0		RS1370	00	1.0000			EA			
		RES M/F 3.57Kohm 1% 1/4W T/R			10	R24				100.00
0		RS1455	00	3.0000			EA			
		RES M/F 150Kohm 1% 1/4W T/R			10	R35,36,49				100.00
0		RS1492	00	1.0000			EA			
		RES M/F 221Kohm 1% 1/4W T/R			10	R30				100.00
0		RS1505	00	1.0000			EA			
		RES M/F 475Kohm 1% 1/4W T/R			10	R37				100.00
0		RS1562	00	1.0000			EA			
		RES M/F 82.5Kohm 1% 1/4W T/R			10	R47				100.00
0		RS1585	00	1.0000			EA			
		RES M/F 475 ohm 1% 1/4W T/R			10	R5				100.00
0		RS2018	00	3.0000			EA			
		RES M/F 10Kohm 1% 1/4W T/R			10	R13,18,26				100.00
0		RS2019	00	8.0000			EA			
		RES M/F 20Kohm 1% 1/4W T/R			10	R2,12,20,41,58,69,R70,71				100.00
0		RS2025	00	2.0000			EA			
		RES M/F 9.31Kohm 1% 1/4W T/R			10	R1,22				100.00
0		RS2100	00	2.0000			EA			
		RES M/F 22.1Kohm 1% 1/4W T/R			10	R9,10				100.00
0		RS2124	00	1.0000			EA			
		RES M/F 2.37Kohm 1% 1/4W T/R			10	R6				100.00
0		RS2125	00	2.0000			EA			
		RES M/F 59Kohm 1% 1/4W T/R			10	R7,15				100.00
0		RS2127	00	1.0000			EA			
		RES M/F 12.4Kohm 1% 1/4W T/R			10	R8				100.00
0		RS2129	00	1.0000			EA			
		RES M/F 5.49Kohm 1% 1/4W T/R			10	R11				100.00
0		RS2132	00	1.0000			EA			
		RES M/F 21.5Kohm 1% 1/4W T/R			10	R17				100.00
0		RS2134	00	1.0000			EA			
		RES M/F 324Kohm 1% 1/4W T/R			10	R19				100.00
0		RS2139	00	1.0000			EA			
		RES M/F 200 ohm 1% 1/4W			10	R25				100.00

SA0309151 - Axial Sequence

Item..	X	..Part Number..	Rev	.Quantity.	...Alt-Part#...	....Reference Designator....	.UM.	ECO No.	ECO Date	Strt Use	End
		Description		Inv	Oper#						Yield%
		T/R									
0		RS2140	00	1.0000			EA				
		RES M/F 619Kohm 1% 1/4W		10		R32					100.00
		T/R									
0		RS2141	00	1.0000			EA				
		RES M/F 110Kohm 1% 1/4W		10		R33					100.00
		T/R									
0		RS2142	00	3.0000			EA				
		RES M/F 100Kohm 1% 1/4W		10		R34,38,53					100.00
		T/R									
0		RS2143	00	4.0000			EA				
		RES M/F 3.32Kohm 1% 1/4W		10		R27,40,46,55					100.00
		T/R									
0		RS2144	00	2.0000			EA				
		RES M/F 1.3Kohm 1% 1/4W		10		R42,60					100.00
		T/R									
0		RS2146	00	1.0000			EA				
		RES M/F 1.5Mohm 1% 1/4W		10		R44					100.00
		T/R									
0		RS2147	00	1.0000			EA				
		RES M/F 249Kohm 1% 1/4W		10		R45					100.00
		T/R									
0		RS2148	00	1.0000			EA				
		RES M/F 130Kohm 1% 1/4W		10		R59					100.00
		T/R									
0		RS2149	00	6.0000			EA				
		Res. Fuse 1Kohm 5% 1/4W T		10		R61,62,64,72,73,76					100.00
		/R									
0		RS2150	00	2.0000			EA				
		Res. Fuse 0.22ohm 5% 1/2W		10		R65,77					100.00
		T/R									
0		RS2151	00	1.0000			EA				
		RES M/O F/P 1Kohm 5% 2W		10		R68					100.00
		T/R									
0		RS2152	00	1.0000			EA				
		RES M/F 75Kohm 1% 1/4W		10		R81					100.00
		T/R									
0		RS2155	00	2.0000			EA				
		RES C/F 33Kohm 5% 1/2W		10		R43,43B					100.00
		T/R									
0		RS2158	00	1.0000			EA				
		RES M/F 3.3Kohm 5% 1/4W		10		R75					100.00
		T/R									
0		RS2181	00	2.0000			EA				
		RES M/F 2.21Mohm 1% 1/4W		10		R28,31					100.00
		T/R									

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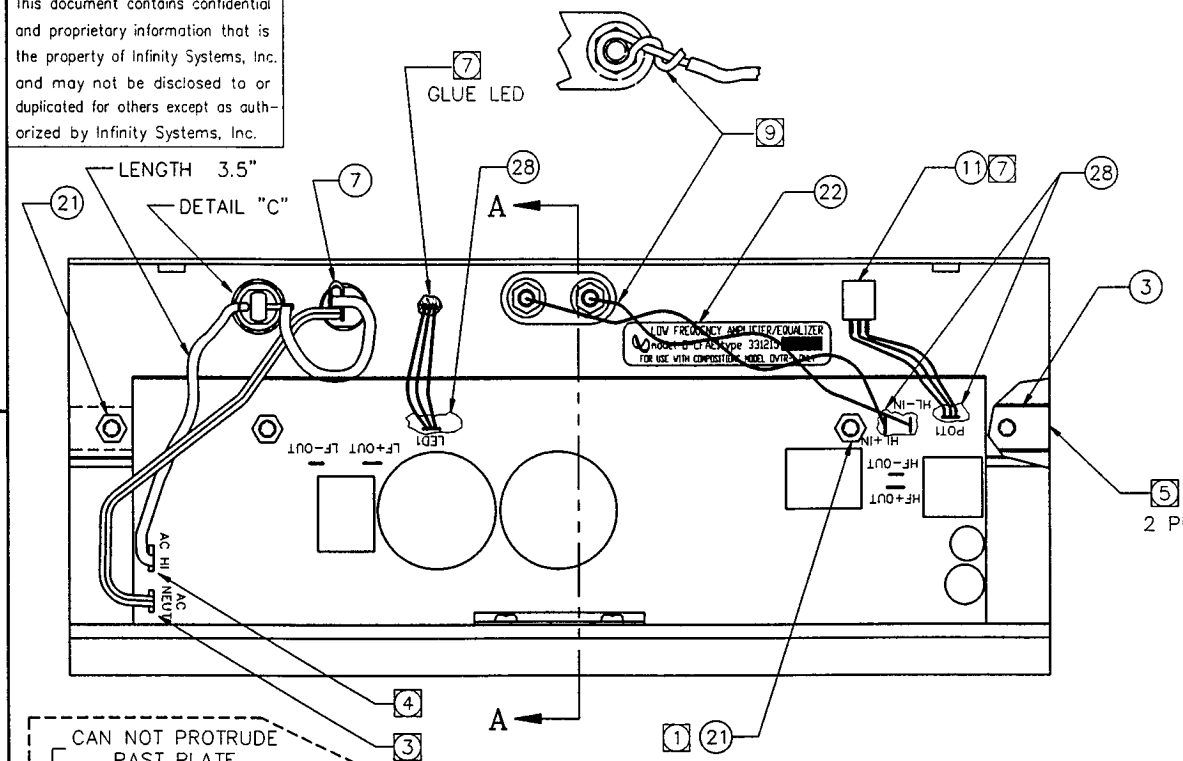
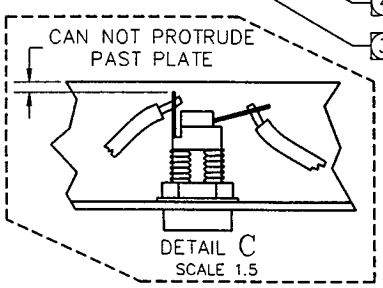
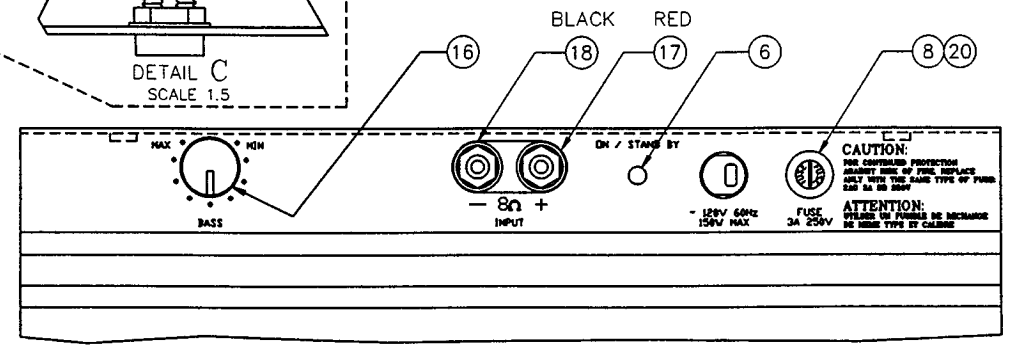
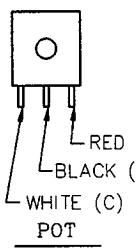




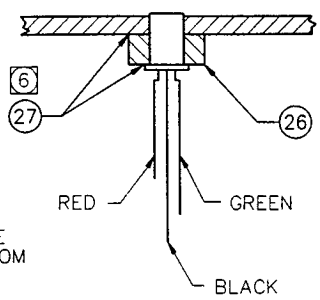


VIEW B–B



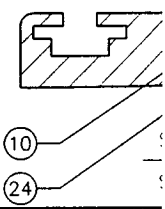
POT

SCALE: N/A



LED

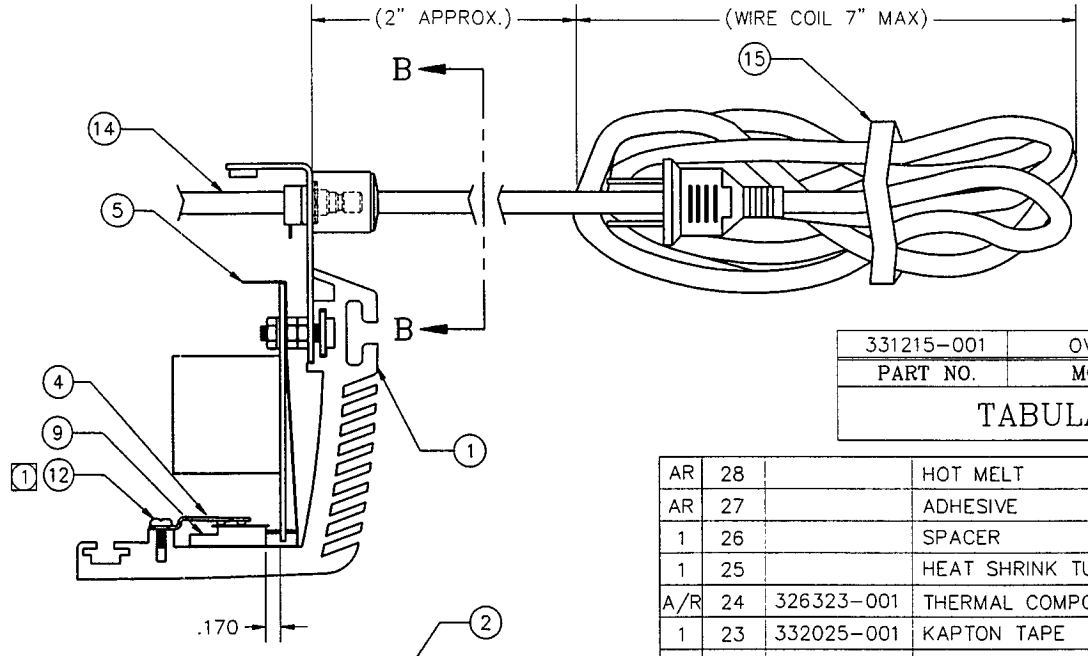
SCALE: N/A

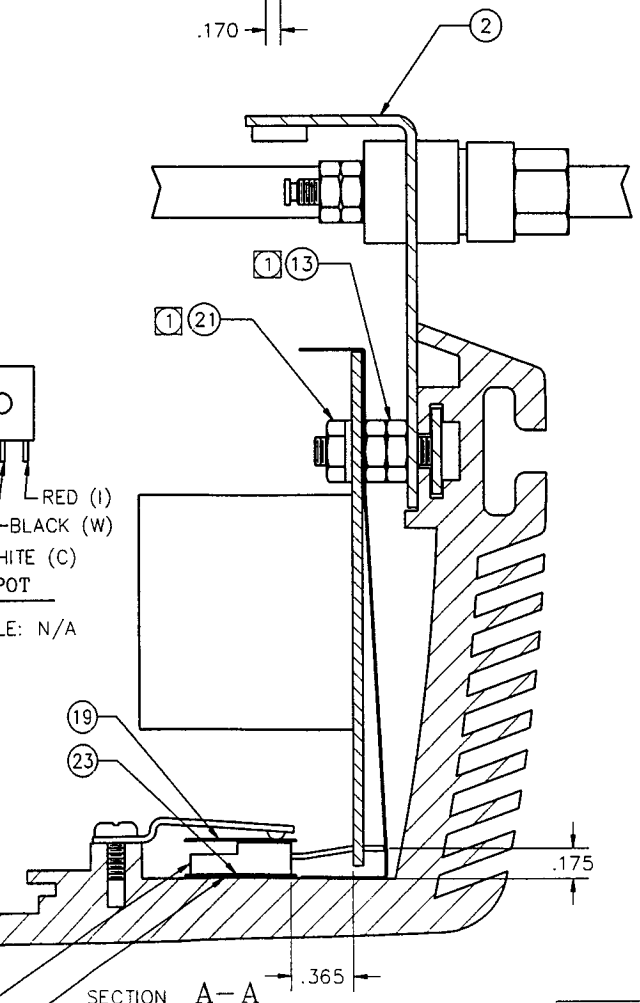


9. BINDING POST WIRES TO BE WRAPPED AND TWISTED BEFORE SOLDERING.
8. FUSE HOLDER WIRES NOT TO PROTRUDE ABOVE TO TOP EDGE OF AMP PLATE.
7. LED AND POTENTIOMETER LEADS MUST ALL BE INSULATED.
6. SPACER TO BE SECURELY GLUED TO LED. LED & SPACER TO BE SECURELY GLUED TO AMP PLATE WITH NO ADHESIVE VISIBLE FROM FACE SIDE OF AMPLIFIER.
5. ITEMS 2 & 3 (AMP PLATE & BAR ASSY) MUST NOT PROTRUDE BEYOND END OF ITEM 1 (EXTRUSION) ON OTHER END.
4. .250 INSULATED FEMALE TAG.
3. .187 INSULATED FEMALE TAG.
2. ORIENTATION OF KNOB AS SHOWN WITH POT IN DETENT POSITION.
1. TORQUE 6 IN/LB.

NOTES: (UNLESS OTHERWISE SPECIFIED)

REVISIONS						
CHG	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
18371	A	PROD. REL -001	DM	J.	7/17/96	J.I.
18566	B	REMOVED LOGO, ADDED NOTES	T.H.	J.	08/16/96	J.I.
18579	C	CLARIFY FUSE HOLDER DETAIL	T.H.	H.F.	08-20-96	H.F.





SECTION A–A

SCALE: 2/1

331215–001	OVTR 1	
PART NO.	MODEL	REMARKS

TABULATION

QTY	ITEM	PART NO.	PART/MATERIAL	REMARKS
AR	28		HOT MELT	
AR	27		ADHESIVE	PERMABOND 799 OR LOCTITE 4417
1	26		SPACER	
1	25		HEAT SHRINK TUBING	
A/R	24	326323–001	THERMAL COMPOUND	
1	23	332025–001	KAPTON TAPE	
1	22	331962–001	LABEL, AMP, S/N–120V	
4	21	907102–001	NUT, #8–32 KEP, ZINC	
1	20	331630–001	FUSE, 3 AMP SB	#229003
1	19	331956–001	INSULATOR, TRANSISTOR	
1	18		BINDING POST	BLACK
1	17		BINDING POST	RED
1	16	331944–002	KNOB	ECI #52
1	15		TIE STRAP	FOR POWER CORD
1	14	332036–001	LINE CORD, 12 FT, 16 GA	TUMBLER CORP 451PT26125
4	13	10051	NUT, #8 HEX, ZINC	
2	12	900302–004	SCREW, #6–32 X 1/4 LG	PHILLIPS PAN HEAD, ZINC
1	11		POTENTIOMETER	W/NUT & WASHER
1	10		TRANSISTOR	2SD2012
2	9		TRANSISTOR	IRFS250
1	8		FUSE HOLDER	LITTLE FUSE 245001
1	7		BUSHING, RESTRAIN RELIEF	HEYCO 1114
1	6		LED	STANLEY VRPG 3349S
1	5	331957–001	INSULATOR	
1	4	332125–001	CLAMP, TRANSISTOR	
1	3	331709–001	BAR, AMP ASY	
1	2	331711–001	PLATE, AMP	
1	1	330836–001	EXTRUSION	

PURCHASE ASSEMBLY BILL OF MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH-SIZES. BREAK SHARP EDGES .016 INCH

TOLERANCES (UNLESS OTHERWISE SPECIFIED)

.XXX ± .005 INCH
.XX ± .010 INCH
.X ± .020 INCH ANGULAR TOLERANCE OF 0°±30'

FRACTIONAL DIMENSIONS ± 1/32

ALL DIMENSIONS ARE FINISHED DIMENSIONS

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

DRAWN	5/7.96
VAL	DATE
ME/CHECKER	6/6/96
J.IRISH	DATE
ENGR	
B.FRANK	DATE
MODELS USED ON	NOTED

Infinity harman consumer group
A Harman International Company
Northridge, California 91329 U.S.A.

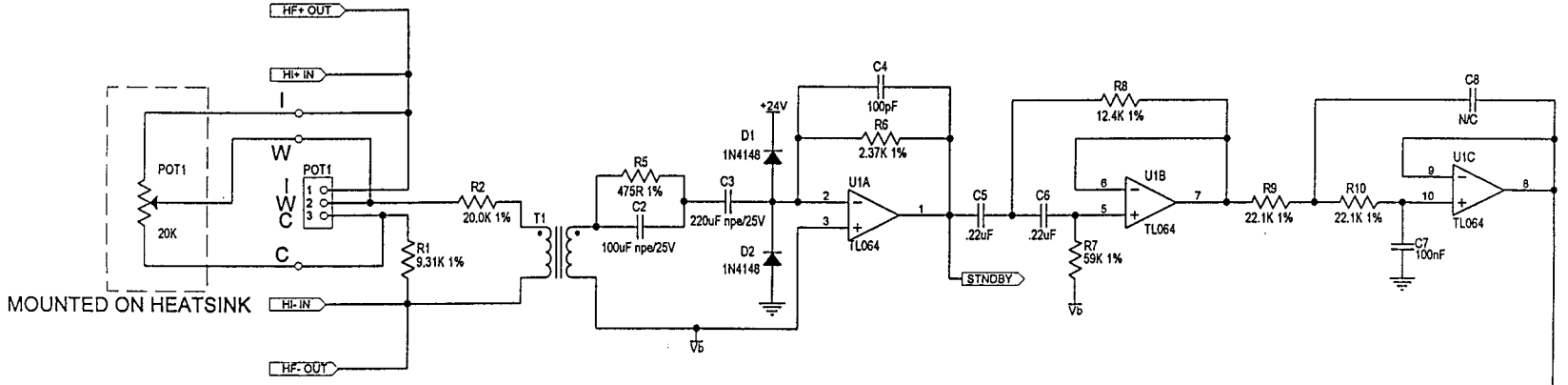
TITLE: AMPLIFLIER ASSY, 120V

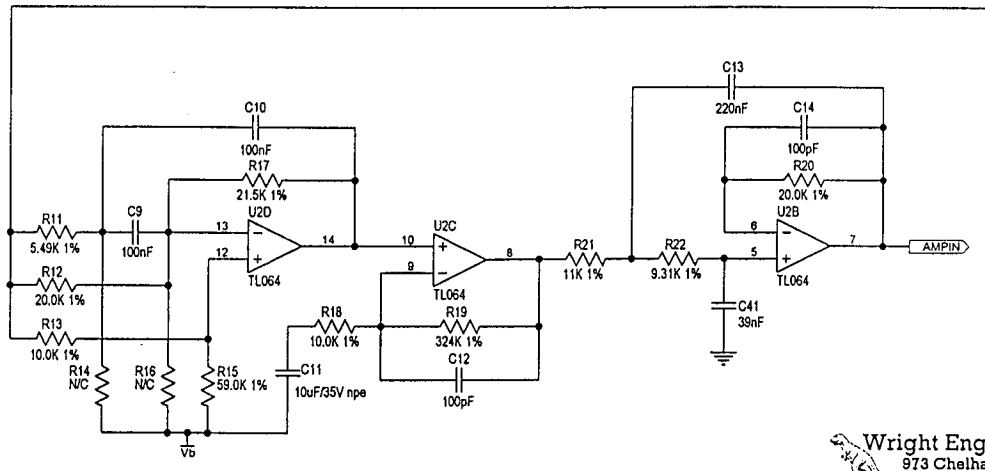
SIZE D | DRAWING NO. 331215 | REV C

SCALE 1/1 | SHEET 1 OF 1

ZD0205 19

REVISION RECORD			
REV:	ECO NO:	APRVD:	DATE:





Wright Engineering
973 Chelham Way Voice: 805-565-5742
Montecito, CA 93108 Fax: 805-565-3772

Company	INFINITY SYSTEMS INC.
Title	OVERTURE 1 FILTER
Size: B	Number:
Revision: REV B	
Date: 3-Dec-1996	Sheet 2 of 4
File: D:\INFINITY\OVERTU~1\REVB\O1FIL.SCH	Drawn By: John Wright

ZD.0205

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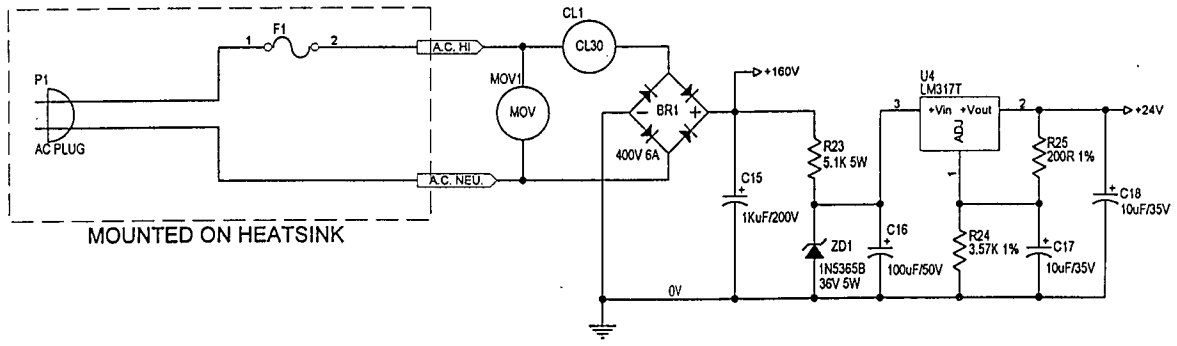
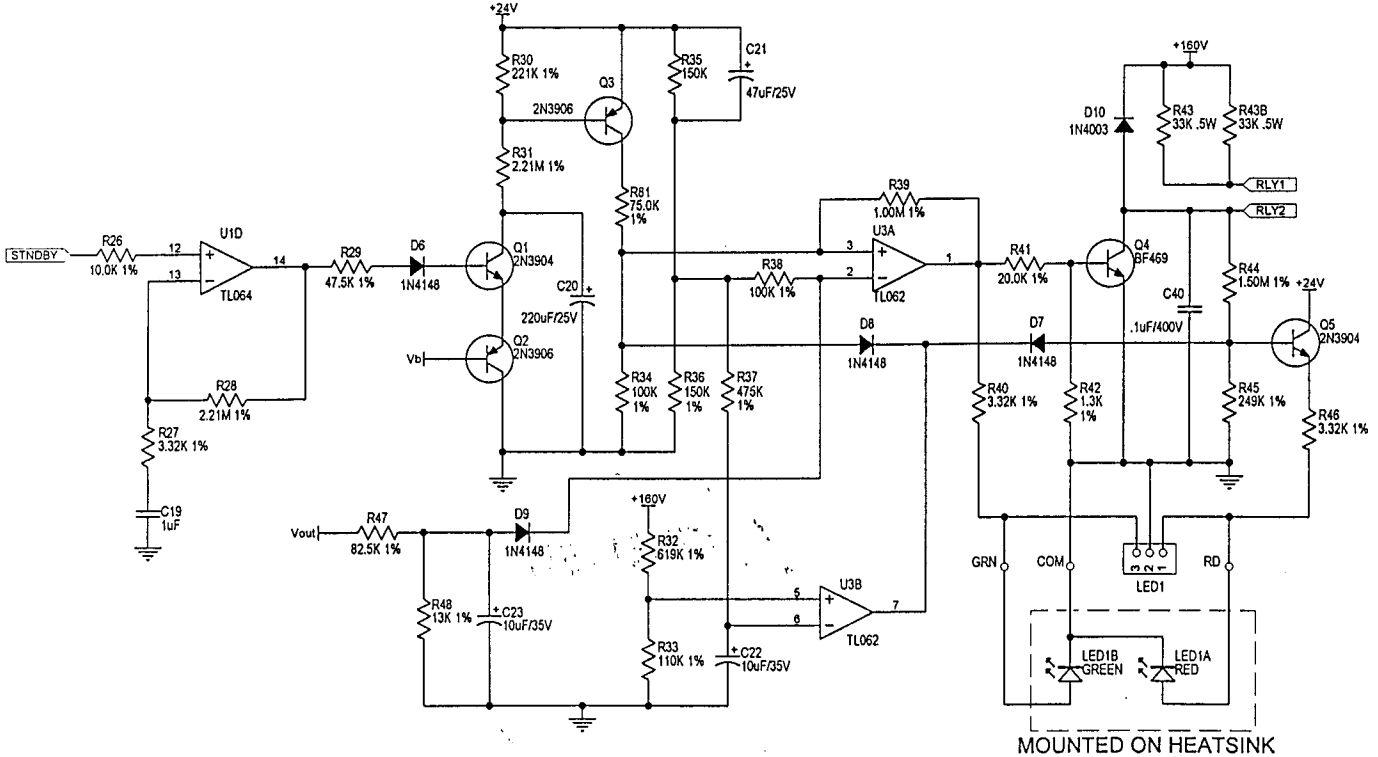
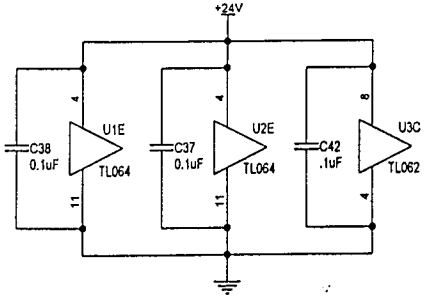
REVISION RECORD			
REV:	ECO NO:	APRVD:	DATE:







Wright Engineering
973 Chelham Way Voice: 805-565-6742
Montecito, CA 93108 Fax: 805-565-3772

Company	INFINITY SYSTEMS INC.
Title	OVERTURE 1 POWER SUPPLY
Size: B	Number:
Revision: REV B	
Date: 3-Dec-1996	Sheet 1 of 4
File: D:\INFINITY\OVERTU~1\REVB\01POWER.SCH	John Wright

ZD0205

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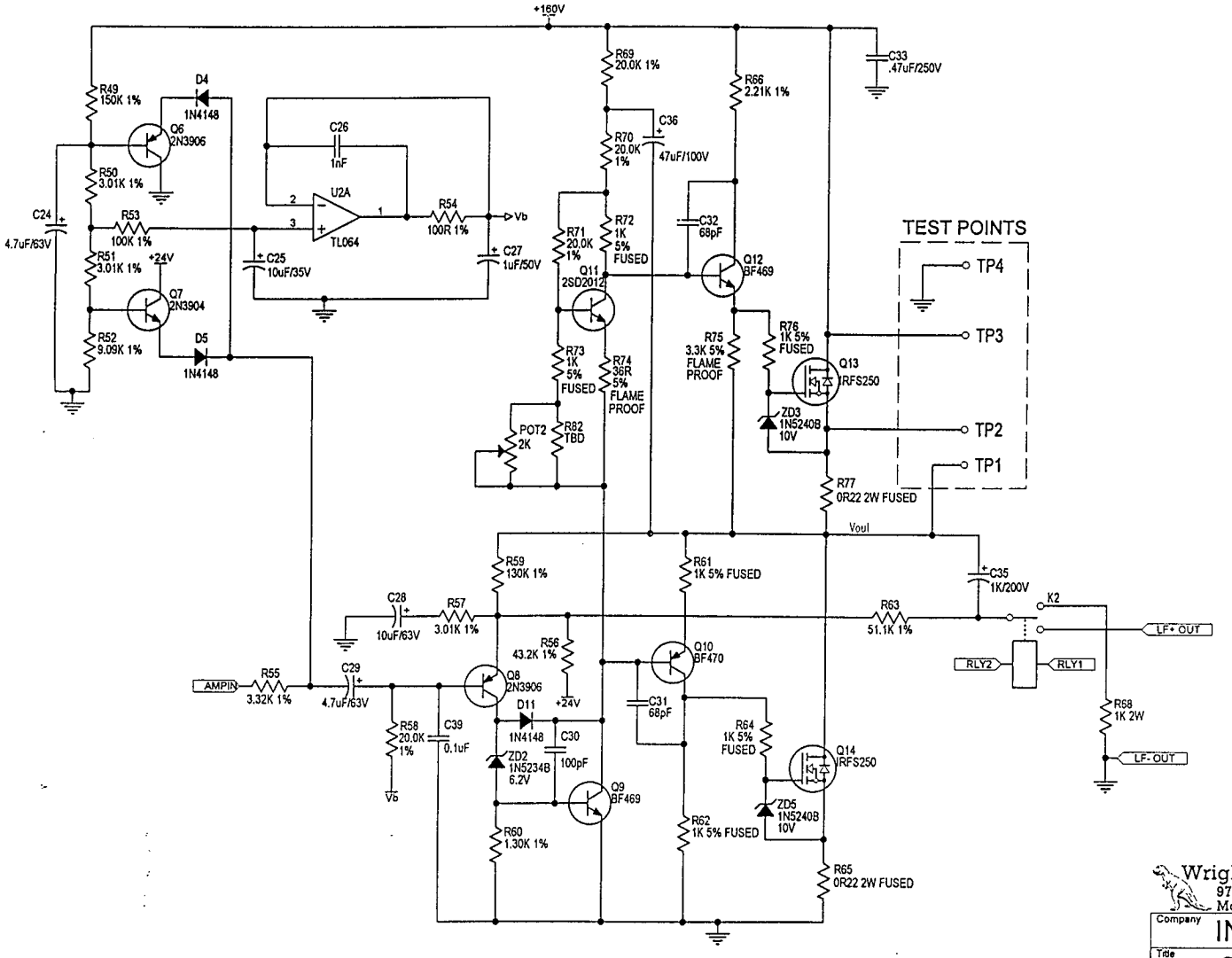

REVISION RECORD			
REV:	ECO NO:	APRVD:	DATE:

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973 Chelham Way Voice: 805-565-5742
Montecito, CA 93108 Fax: 805-565-3772

Company	INFINITY SYSTEMS INC.	
Title	OVERTURE 1 AMPLIFIER	
Size: B	Number:	Revision: REV B
Date: 3-Dec-1996	Sheet 3 of 4	
File: D:\INFINITY\OVERTU~1\REVB\OTAMP.DDB	Drawn By: John Wright	

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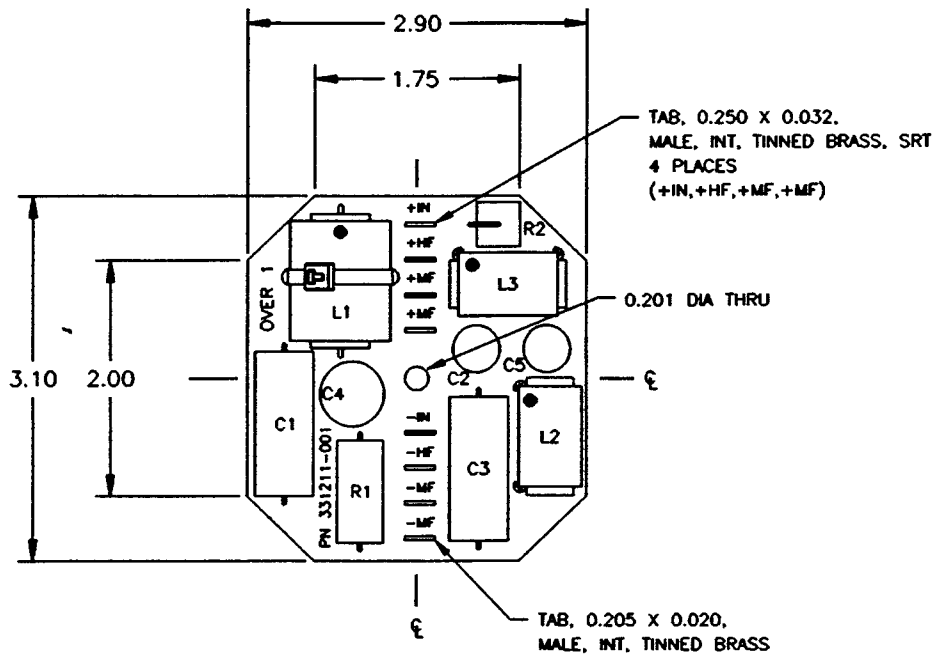


PARTS LIST

C1	120.0 mfd, 50V, NON-POLAR, AXIAL, 10% DF, ±5%, 12X31mm C.S.
C2	10.0 mfd, 100V, NON-POLAR, RADIAL, 6% DF, ±5%, 10X20mm C.S.
C3	150.0 mfd, 50V, NON-POLAR, AXIAL, 10% DF, ±5%, 12X31mm C.S., TESTED @ 120 Hz.
C4	16.0 mfd, 100V, NON-POLAR, RADIAL, 10% DF, ±10%, 13X26mm C.S.
C5	4.7 mfd, 50V, NON-POLAR, RADIAL, 6% DF, ±10%, 10X13mm C.S
L1	0.51 mH, 12.7X30mm, IRON POWDER ROD, 0.17 ohm DCR, ±5%, 19 AWG
L2	4.50 mH, 9.5X25mm, IRON POWDER ROD, 5.00 ohm DCR, ±5%, 30 AWG
L3	0.10 mH, 9.5X25mm, IRON POWDER ROD, 0.10 ohm DCR, ±5%, 21 AWG
R1	5.60 ohm, 5W, ±5%
R2	2.00 ohm, 5W, ±5%
205 PCB	TAB, 0.205 X 0.020, MALE, INT, TINNED BRASS
250 PCB	TAB, 0.250 X 0.032, MALE, INT, TINNED BRASS, SRT
PCB	MATERIAL: CEM-1 COPPER: 1 OZ.

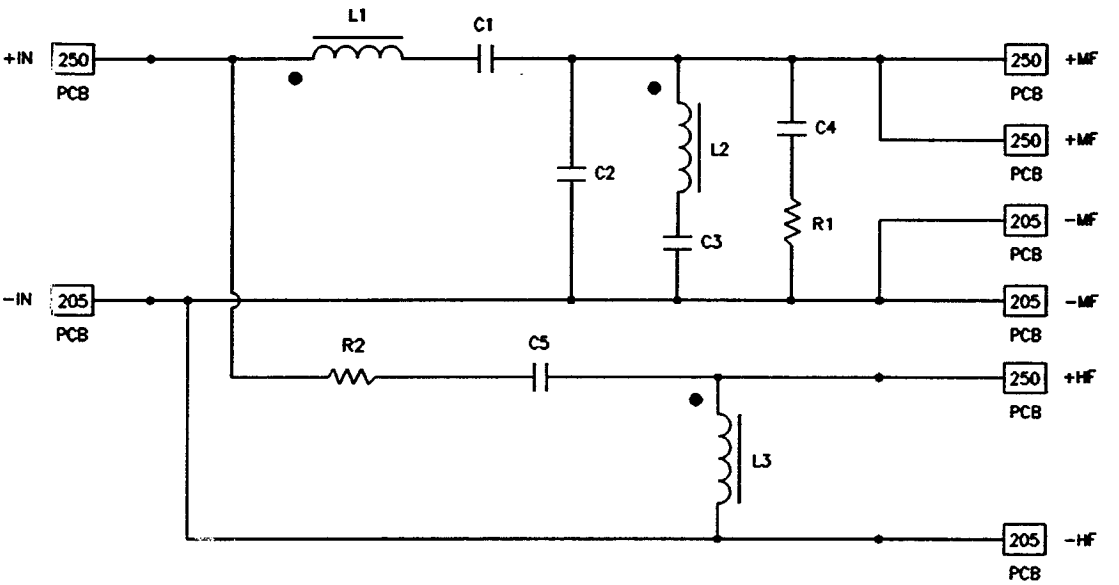
2. "●" DENOTES START LEAD OF INDUCTOR.
1. ALL COMPONENTS TO BE TESTED @ 1 Khz., UNLESS OTHERWISE SPECIFIED.

NOTES: (UNLESS OTHERWISE SPECIFIED)

THIRD ANGLE PR

REVISIONS						
CHG	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
17835	A	PRODUCTION RELEASE -001	A	JI	5/15/96	JI

0.032.
NED BRASS, SRT
+MF)



TABULATION

PART NO.	DESCRIPTION	REMARKS
331211-001	CROSSOVER OVTR 1	NONE

SEE SEPARATE PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH-SIZES
BREAK SHARP EDGES .005 INCH
TOLERANCES (UNLESS OTHERWISE SPECIFIED)
XXXX ± .005 INCH
XXX ± .010 INCH
XX ± .020 INCH ANGULAR TOLERANCE OF 0°0.30'
FRACTIONAL DIMENSIONS ± 1/32
ALL DIMENSIONS ARE FINISHED DIMENSIONS
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

DRAWN	D MARTH 5/15/96
ME/CHECKER	JI 5/15/96
ENGR	ENGR DATE
MODELS USED ON	NOTED

infinity harmanconsumer group
A Harman International Company
Northridge, California 91329 U.S.A.

TITLE: CROSSOVER OVTR 1

SIZE	DRAWING NO.	REV
C	331211	A

SCALE 1/1 SHEET 1 OF 1